

TECHSPEC® 50mm, M40 Mount, CA Series Fixed Focal Length Lens



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1

+

£680^{.00}

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General	
CA Series	Series:
Fixed Focal Length Lens	Type:
High Performance Lens	Imaging Lens Type:

Physical & Mechanical Properties

Variable	Iris Option:
72.58	Length (mm):
50	Maximum Diameter (mm):
50	Outer Diameter (mm):
0	Maximum Rear Protrusion (mm):

Optical Properties

93.8mm - 25.2°	Horizontal Field of View, APS-C Sensor:
72.4mm - 19.6°	Horizontal Field of View, 4/3" Sensor:
59.5mm - 16.1°	Horizontal Field of View, 1.1" Sensor:
52.6mm - 14.6°	Horizontal Field of View, 1" Sensor:
36.1mm - 10.1°	Horizontal Field of View, 2/3" Sensor:
30.1mm - 8.2°	Horizontal Field of View, 1/1.8" Sensor:
26.8mm - 7.3°	Horizontal Field of View, 1/2" Sensor:
24.3mm - 6.6°	Horizontal Field of View, 1/2.5" Sensor:
20.1mm - 5.5°	Horizontal Field of View, 1/3" Sensor:
15.1mm - 4.1°	Horizontal Field of View, 1/4" Sensor:
27.90	Maximum Image Circle (mm):
0.059	Numerical Aperture NA, Object Side:
7 (5)	Number of Elements (Groups):
50.00	Focal Length FL (mm):
200 - ∞	Working Distance (mm):
FOV @ Max Sensor Format, H x V (mm): Horizontal: 93.5mm - 25.2° Vertical: 70.1mm - 19° Diagonal: 116.8mm - 31.2°	
f/1.8 - f/16	Aperture (f/#):
N/4 MgF ₂	Coating:
N/4 MgF ₂	Coating Specification:
30.93	Entrance Pupil Position (mm):
55.36	Object Space Principal Plane (mm):
-27.42	Image Space Principal Plane (mm):
-0.36	Maximum Distortion (%):
-75.18	Exit Pupil Position (mm):
VIS	Lens Wavelength Range:

Sensor

APS-C	Maximum Sensor Format:
2.74	Pixel Size (μm):

Threading & Mounting

Filter Thread:

M37.5 x0.50 (Female)	
M40 x0.75	Mount:
Environmental & Durability Factors	
Storage Temperature (°C): -20 to +60 For questions regarding operating temperature please contact our support team	
Regulatory Compliance	
View	Certificate of Conformance:

Product Details

- APS-C (27.9mm), TFL-Mount Lens or M40 Mount Lens
- Greater than 30 MegaPixels, 3.45µm Pixel Size Sensors
- High Resolution, Compact APS-C Lens (CA)
- 35mm to 100mm Focal Length

TECHSPEC® CA (Compact APS) Series Fixed Focal Length Lenses are designed for high-resolution large-format sensors. Covering the APS-C format sensors with a 28mm image circle, these lenses feature a [TFL Mount](#) or M40 Mount. TFL Mounts feature an M35 x0.75 thread with a 17.5mm flange distance, and offer the same robustness and ease of use as a C-Mount. M40 Mounts feature a M52 x0.75 thread with a 17.526mm flange and provide a robust, large-format mounting solution ideal for high-resolution and larger image sensors with improved mechanical stability and optical performance compared to smaller format mounts. TECHSPEC® CA Series Fixed Focal Length Lenses offer a compact size while accommodating large format sensors, making them ideal for machine vision and [factory automation](#) applications.

These lenses won the [3rd place 2020 Inspect Award](#) and the [Silver-Level 2020 VSD Innovators Award](#).